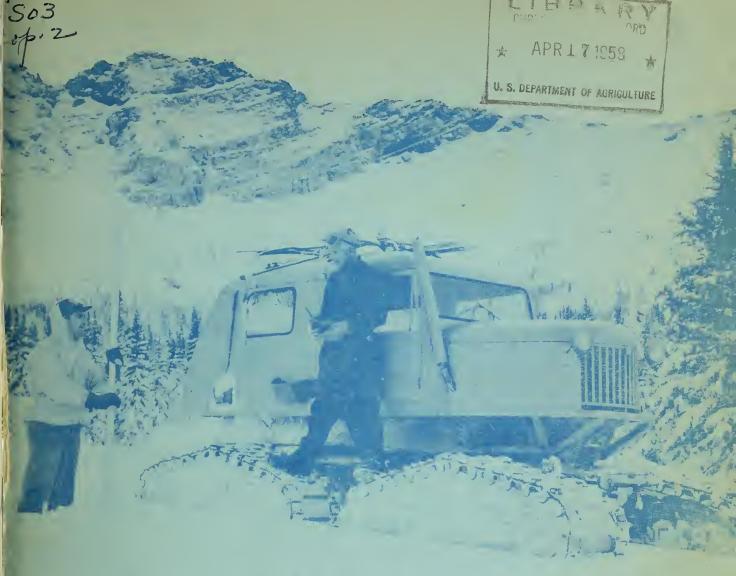
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FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEY and WATER SUPPLY FORECASTS for WYOMING

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE, and

STATE ENGINEER of WYOMING

Data included in this report were obtained by the agencies named above in cooperation with the U.S. Forest Service, Bureau of Reclamation, National Park Service, and other Federal, State and private organizations.

APR. 1, 1958

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1300 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

PUBLISHED BY SOIL CONSERVATION SERVICE

REPORTS	ISSUED	COOPERATING WITH	LOCATION
RIVER BASINS			
Colorado, Rio Grande	MONTHLY (FEBMAY),	COLO. EXP. STATION	FT. COLLINS, COLO.
COLUMBIA Includes Alaska	MONTHLY (JANMAY)	•••••	BOISE, IDAHO
UPPER MISSOURI	MONTHLY (FEB MAY)	MONT.AGR.EXP.STATION	BOZEMAN, MONTANA
WEST-WIDE	SEMI-ANNUALLY (OCT. 1 AND APR.1)	Cooperators	PORTLAND, OREGON
STATES			
ARIZONA	SEMI-MONTHLY	SALT R. VALLEY WATER	PHOENIX, ARIZONA
NEVADA	MONTHLY (FEB APR.)	NEVADA STATE ENGINEER	RENO, NEVADA
OREGON	MONTHLY (JANMAY)	ORE.AGR.EXP.STATION	PORTLAND, OREGON
UTAH	(YAMMAY)	UTAH STATE ENGINEERUTAH AGR.EXP.STATION	SALT LAKE CITY. UTAH
WASHINGTON	Monthly (FEBMAY)	WASH. STATE DEPT. OF CONSERVATION AND DEVELOPMENT	SPOKANE, WASHINGTON
WYOMING	Monthly (FebJune)	WYOMING STATE ENGINEER	CASPER, WYOMING
Copies of the	various reports may be s	secured from: Head, Water Sup	ply Forecasting Section

PUBLISHED BY OTHER AGENCIES

Soil Conservation Service

209 S.W. 5th Avenue, Portland 4, Oregon

OTHER SNOW SURVEY REPORTS BRITISH COLUMBIAMONTHLY	WATER RIGHTS BR., DEPT. OF LANDS PARLIAMENT BLDGS, VICTORIA, B.C.
CALIFORNIAMONTHLY	IA DEPARTMENT OF WATER RESOURCES. TO. CALIFORNIA

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND WATER FORECASTS

FOR

WYOMING

Issued April 1, 1958

Report Prepared
by
George W. Peak
Snow Survey Supervisor
State of Wyoming

Soil Conservation Service 345 East 2nd Street P. O. Box 699 Casper, Wyoming

Issued by

B. H. Hopkins State Conservationist Soil Conservation Service

Earl Lloyd State Engineer of Wyoming Cheyenne, Wyoming

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PRELIMINARY WATER SUPPLY OUTLOOK

FOR

WYOMING

APRIL 1, 1958

Prospective snow melt water supplies stored in the high watersheds of * * Wyoming are ranging from a low of 60 per cent of normal in the southern, 3.0 end of the Wind River to a high of 122 per cent of average in the North * * Platte Basin above Saratoga. >< * * * Soil moisture conditions are generally above normal and will require ፨ * less than average recharge from the existing snow pack. 米 * * zk Reservoir storage is considerably above average for this time of year, * >'< particularly in the North Platte Basin. ><

SNAKE RIVER BASIN

The expected discharge of the Snake River into Jackson Lake will be close to 90 per cent of the 1938-1952 average. Ranging downstream, the snow pack drops steadily to 80 per cent in the Gros Ventre area and picks up again at the Hoback. The discharge into Paligades Reservoir will be 87 per cent of average.

GREEN RIVER BASIN

The snow pack in the Green River Basin is close to normal with soil moisture conditions a little above normal. Expected water supplies for the season will be average in the headwaters with above average contribution from the Uintah Range.

NORTH PLATTE BASIN

The April 1, 1958, snow surveys in the North Platte River Basin have found an above normal snow pack in the Colorado headwaters and the Snowy Range watershed. The Sierra Madres above Encampment are slightly below normal; however, soil moisture is high throughout the Basin indicating a possible reversal in the past ten year recession. Snow melt runoff of 120 per cent of normal is expected at Saratoga.

Storage on the North Platte is considerably above normal for this time of year. The most probable outlook for the growing season is considered

excellent. The Laramie River is expected to discharge 115 per cent or . 121,000 acre feet at Jelm. Wheatland Reservoir is standing at 82 per cent of useable capacity. Prospects for the Laramie River Basin are much better than they have been the past several years.

WIND RIVER BASIN

Snow surveys in the Wind River Basin above Boysen Reservoir indicate discharge deficits ranging from 22 per cent at Dubois to 40 per cent on the Popo Agie. Should subsequent precipitation be deficient, inadequate supplies may be expected, particularly in those areas lacking storage above diversion points.

BIG HORN BASIN

Shortages may be expected in areas west of the Big Horn River, particularly where water is diverted from streams having full natural flow. The west flank of the Big Horn Mountains is ten to fifteen per cent below normal and the Shoshone River is expected to discharge 90 per cent of normal into Buffalo Bill Reservoir.

BIG HORN MOUNTAINS

Generally speaking, water supplies from the Big Horns will be somewhat less than normal to the north and east. This is the third year of data for the network established on the Big Horn Mountains. Water supplies are expected to closely parallel those of 1957.



WYONING STREAM-FLOW FORECASTS APRIL, 1958

		transitionismikus tari dan selah			
			September		
BASIN AND TRIBUTARY		Stream-Flo	w in Thou	sands of	
DASIN AND INIBULARI	FORECAST	%	2.5	1 = 00	15-Yr.
	RUNOFF	15-Yr.	The state of the s	d Runoff	Average
		Average	1955	1954	1938-52
MADISON RIVER					
West Yellowstone (at)	173	88%	183	219	198
YELLOWSTONE RIVER	-, -	0 0,0		/	 / •
Corwin (at)	1659	89%	1527	2014	1870
NORTH POPO AGIE		·			
Milford(near)	67	77%	5 7	73	8 7 *
LITTLE POPO AGIE					
Lander (near)	32	60%	25	39	53 *
WIND RIVER	80	P 001	66	3.05	7.00
Dubois (at) SHOSHONE RIVER	00	78%	00	105	102*
Buffalo Bill Dam (below) (3)	7 50	91%	534	766	823
SHELL CREEK	100) /0	224	100	025
Shell (near)	70	95%	72	52	74*
CLARKS FORK	, -	771	,		•
Chance (at)	505	87%	419	600	580
LARAMIE RIVER					
Jelm (at) (4)	121	115%	84	46	105*
ENCAMPMENT RIVER		-1-4	0.6		
Encampment (near)	150	94%	86	72	160*
NORTH PLATTE RIVER					
Saratoga (at)	800	122%	319	234	657
MEDICINE BOW RIVER	000	1.2.2/0	21.7	2)4	971
Hanna (near)	116	105%	51	17	111
SWEETWATER RIVER	22.00	220//0			
Alcova (at)	47	65%	35	45	73
GREEN RIVER					
Warren Bridge (at)	306	92%	253	354	333



WYOMING STREAM-FLOW FORECASTS APRIL, 1958

	April-September 30									
	Seasonal			ousands of	Acre Feet					
BASIN AND TRIBUTARY	FORECAST RUNOFF	% 15 - Yr. Average	Measure	d Runoff 1954	15-Yr. Average 1938-52					
NORTH PINEY CREEK										
Mason (near) NEW FORK CREEK	45	122%	24	35	37					
Boulder (near) GREEN RIVER	251	101%	161	259	248					
Fontenelle (at) Linwood (at) Utah SNAKE RIVER	923 1290	100% 99%	623 756	896 901	923 1 30 0					
Moran (at) (5) PACIFIC CREEK	770	90%	738	1010	858					
Moran (near) BUFFALO FORK	134	81%	142	230	166*					
Moran (near) GROS VENTRE	290	81%	315	418	356*					
Kelly (at) HOBACK	212	81%	199	293	26 1 *					
Jackson (near) SNAKE RIVER	352	91%	290	448	386*					
State Line (at) (5) Heise (at) (5) SALT RIVER	2580 3540	87% 92%	2516 2925	3250 4001	2949* 3834					
State Line (at) BEAR RIVER	413	115%	231	287	360					
Evanston (near) Randolph (near) Harer (at) Idaho	154 123 307	108% 106% 109%	74 26 116	55 15 100	142 116* 281					
SMITHS FCRK Border (near)	121	106%	78	89	114*					

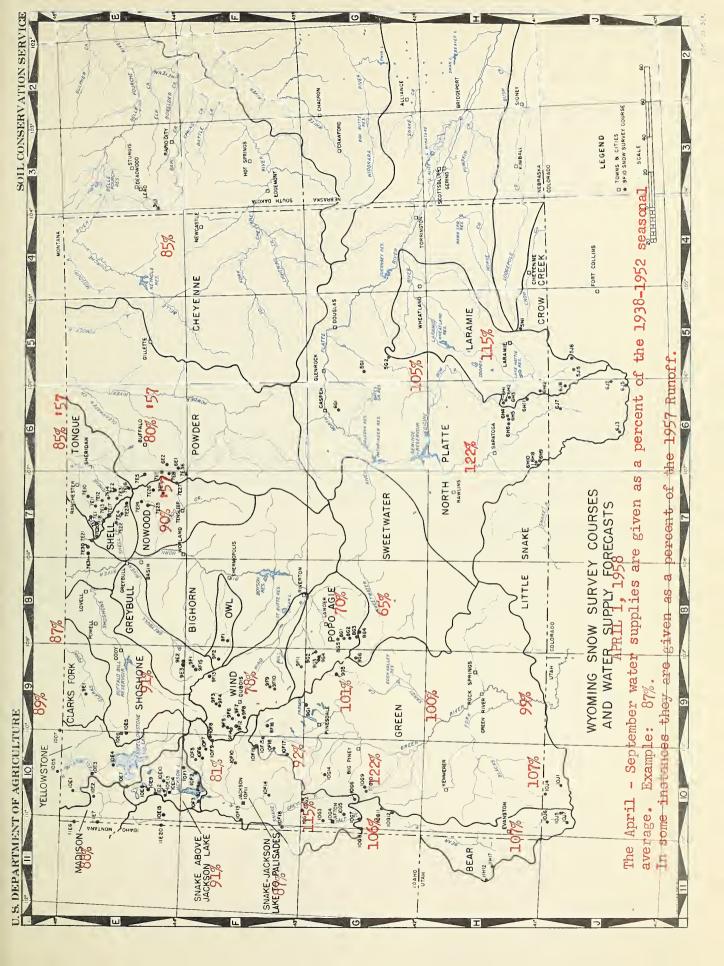
All stream data taken from observed flow records with the following exceptions:

- (1) Observed flow corrected for storage in Bull Lake and Pilot Butte reservoirs.
- (2) Observed flow corrected for storage in Boysen, Bull Lake and Pilot Butte Reservoirs.
- (3) Observed flow corrected for storage in Buffalo Bill Reservoir and Hart Mountain Diversion.
- Observed flow corrected for Colorado Diversion above station.
- (4) Observed flow corrected for Colorado Diversion and (5) Observed flow corrected for Jackson Lake storage.

^{*} Less than 15.

Estimated 1938-52 average. **





INDEX TO WYOMING SNOW COURSES

rainage Sasin nd Course Name	Wyoming Number	Elev.	Seo. Lat. MRI RIVER	Twp.	Range Long.	Record		Moge.		Drainage Sasin and Course Name	Wyoming Number	Blev.	Seo. Lat. I RIVER	Twp. DRAINAGE	Range Long.	Record Segan	Mess. Dates	ъева. Ву
DISON RIVER										CROW CREEK								
rrie Sasin Vile em	10E2 11E6	7500 7150	44°44' 1	115	110°42'	1936 1934	3,4 1,2,3,4,5	2 6		Pole Mountain #2	5H1	8700	35	15N	72W	1936	2,3,4,5	1,4
LLOWS FORE	11E7	6700	34	135	5E	1934	1,2,3,4,5	6		NORTH PLATTE	6H11	9400	18	14N	78%	1949	2,3,4,5	1
nyon	10E3	7750	44044		110°30'	1938	1,2,3,4,5			Albany Sottle Creek Soxelder	6H8 5G1	8200	24 31	14N 30N	85W 75W	1936 1950	2,3,4,5	1,4
oks City om evice Mountain on	10D7 10D5	7400 8400	25 22	9S 9S	14B 9E	1937	1,2,3,4,5	2 4 2		Casper Mountain Columbine #c	6G1 6J3		16 21	32N 5K	79W 82W	1954 1936	1,2,3,4,5	1
et Entrence ce Camp pine Creek	10E6 10E4 10E1	7000 7850 7300	17 44°34' 44°54'	52N	109W · 110°24' 110°37'	1948 1937 1938	1,2,3,4,5 1,2,3,4,5 1,2,3,4,5	1 2		Fox Park LaBonte	6‼12 5G2	9200 8450	21 11	13H 27N	76W 74W	1936 1949	2,3,4,5	1
umb Divide lvan Pses	10E7 10E5	7900 7100	44°22' 12	52N	110°35'	1946 1936	2,3,4	5		North Barrett Creek#1 North French Creek#1 North French Creek#2	6H4 6H14	9400 10200 10200	30 27 27	16N 16N 16N	80W 80W 80W	1936 1938 1956	2,3,4,5 2,3,4,5 2,3,4,5	1,4 1,4 1,4
ARK'S FORK										Northgete *c	6J 7 6H10	8500 9800	7 29	11N 148	79W 85W	1950 1936	2,3,4,5	1,4
dgepole	9E1	8200	32	56N	106W	1940	2,3,4,5	1,4		Perk View oc Ryen Perk #2	6J 2 6H6	9200 8400	24 34	5% 16%	78W 81W	1936 1936	2,3,4,5	1,4
ND RIVER										Webber Spring Aillow Creek Pess *c	6:19 6J.5	9000 9500	27 1	14N 45	85W 78W	1936 1938	2,3,4,5	1,4
g Werm ooke Lake #3 rroughs Creek	9F12 10F8 9F4	9200 8800	36 23 15	429 44 N 43 N	109W 110W 107W	1955 1939 1948	2,3,4,5 2,3,4,5 2,3,4,5	1 1		CHEYENNE RIVER								
nwoodie y Creek	9F 10 9F9	10000	9	38K 4N	105W	1948 1948	2,3,4,5	1		Upper Speerfish *s	3E1	6500	21	3 h	IE /	1944	2,3,4	4
Noir st Fork	9F6 9F13	8750 9200	27 23	42N 441i	108W 104W	1940 1956	2,3,4,6	1				COLORAI	OC_RIVER	DRAINAGE	3	23		
yser Creek ttle Werm eriden R.S. #1 of	9F8 9F5	8500 9500 7500	12 24 3	41N 41N 42N	108W 108W 109W	1948 1948 1939	2,3,4,5 2,3,4,5 2,3,4,5	1		GREEN RIVER								
eriden R.S. #2	9F14 9F3	7500 6000	3	42N 43N	10 <i>74</i>	1955 1940	2,3,4,5	1 1		Big Park 8lind Bull Dutch Joe R.S.	10011 1002 905	8700 8750 8700	7 6 32	27N 34N 31	117# 115# 104#	1951 1948 1936	2,3,4,5 2,3,4,5 2,3,4,5	1 1 1
Dances Loss	10F9	9600	29	44N	110%	1936	2,3,4	5		Eest Rim Divide Green River Lakes	10F17 9F16	7950 8100	32 30	3711 39	111W 108W	1936 1956	1,2,3,4,5	1
PO AGIE RIVER',	852	9500	23	318	101W .	1939	2,3,4,5	1		Gros Ventre Hewinta R.S. *u	10F19 10J4	8750 9500	36 33	40H 3N	114W 13E	1948	2,3,4,5	1
uce's Camp bba Perk	805 903	6500 10000	24 22	32N 25	101W -	1955	2,3,4	1		Hole-in-the-Rook *u Kelly R.S. Kendell R.S.	10J1 10G12 10F15	9150 8200 7900	13 13 23	2N 26N 381	15E 116W 110W	1931 1951 1936	4 2,3,4,5 2,3,4,5	1
squito Park R.S.	964 861	9500 8500	23	2S 31N	3W 5	1940	2,3,4,5	1		Loomis Park Kulligen Perk	10F16 9G1	8500 8900	14 17	37N 35M	111W 108W	1936 1936	2,3,4,5	1
Lawrence R.S.	8G3 9F11 9G2	9000 9000 8400	13 26 5	30N 1N 2S	101'# 4W 2W	1939 1940 1948	2,3,4,5 2,3,4,5 2,3,4,5	1		Old Battle Pirey-Lassrge	6H10 10G10	9800 8820	29 19	14N 29N	86W 114W	1936	2,3,4,5	1,4
L CREEK							. , . , . , .	C		Poison Meedows Snyder Sasin R.S.#1 Snyder Basin R.S.#2	1066 1069 10613	8500 8040 8040	29 15 15	30N 29% 29%	116W 114W 114W	1948 1937 1956	2,3,4,5 2,3,4,5 2,3,4,5	1
overa Mill	9F2	8900	6	43N	102W	1948	2,3,4,5	1 jund		Sods Lake	10014	8300	14	33N	1157	1955	2,3,4,5	1
W1 Creek	8F 1	8700	36	43 N	101W	1948	2,3,4,5	1		SNAKE RIVER BASIN (Ab	ove Jeel			DRAINAGE		الياسية معد		
mber Creek #1-	9E2	8800	25	47N	103W	1948	2,3,4,5	1		Arisona (AD	10F1	6850	3	46N	113W	1919.	2,3,4	5
mber Creek #2	9E3 9F1	8800	25 28	47N 46N	103W	1955	2,3,4,5	1		Aster Creek Besa Camp	10E8 10F2	7700 6900	44°17° 20	46N	110°37'	1919	2,3,4	5
od River #2 OSHONE RIVER;	9F15	8000	28	46K	103#	1956	2,3,4,5	1		Coulter Creek Glade Creek Graesy Loke	10E10 10E13 10E15	7600 7200 7265	440091 440081 6	48N	110o33' 110o44' 1176	1919 1919 1940	2,3,4 2,3,4 2,3,4,5	5
st Entrence	19E6	7000	17	B 2N	109W	1948	1,2,3,4,5			Huckleberry Divide Lewis Lake Divide	10E14 10E9	7300 7900	32 44°13'	48N	115# 110°40'	1919 1919	2,3,4	5
lven Pese	10E5	7100	12	52N	110W	1936	1,2,3,4,5			Moran Say	10F4 10F3	6800 6800	8,17 14 44 ⁰ 08	45N 45N	114W		2,3,4	5
NOOD CREEK	7E25	8700	1	50N	85W	1956	2,3,4,5	1		Snake River Station Thumb Divide	10E12 10E7	6780 7900	44022*		110°40'.	1919 21951	2,3,4	5
dicine Lodge Lakes	7E24 7E8	9500 9700	7 11	51N 48N	87 W 85 W	1956 1950	2,3,4,5	1		JACKSON LAKE TO PALIS								
rth Powder #2 %e ian Gulch	7E36 7E27	8300 8100	20 31	47N 46N	85W 85W	1956 1956	2,3,4,5	1		Afton R.S. Bleokrook	1004 10F7	6200 8600	30 4	32N 44N	116W 111W	1936	2,3,4,5	5
nsleep Lake nsleep R.S. rell R.S.	7E26 7E7 7E35	90 7 5 8300 8300	33 30 30	50N 49N 49N	8 GW 8 GW 8 GW	1956 1935 1956	2,3,4,5 2,3,4,5 2,3,4,5	1 1 1		Slind Sull Bryon Flot GCC Camp	10G2 10F14 10G7	8750 6250 7500	6 9 9	34N 38N 29N	115W F 115W 118W	1948 1936 1936	2,3,4,5 1,2,3,4,5 2,3,4,5	1 1.4
ELL CREEK							,,,,,,			Cottonwood Lake Desdman Rench	10G5 10G1	7500 6534	25 28	31N 35N	118W 116W	1936 1936	2,3,4,5	
le Mountain	7E21 7E20	9600 9200	33 12	5 G K 5 5 N	91W	1956 1956	2,3,4,5	1		East Rim Divide Four Mile Meedows Greys Soundary	10F17 10F6 10F18	7950 7770 5800	32 35 33	37N 45N 37N	111W 112W 118W	1936 1936 1936	1,2,3,4,5 2,3,4,5 1,2,3,4,5	5
ne-Spring Divide	7E18 7E22	9200 7800	32 15	55N 53N	89W 89W	1956 1956	2,3,4,5	1		Gros Ventre Grover Park Divide	10F 19 10G3	8 75 0 7600	36 27	40N 33N	111W 118W	1948 1936	2,3,4,5	1
anite Peee	7E17	8950	19	54 N	8876	1956	2,3,4,5	1	72	Loomis Park Poison Upedows	10F16 10G6	8500 8500	14 29	37N 30N	111W 116W	1936 1949	2,3,4,5	1
inger Creek hell Creek	7E4 7E23	8800 9600	32 12	53N 52N	88W 88W	1935 1956	2,3,4,5	1	S	Teton Pers #2 Togwotee Pese Turpin Meedows	10F13 10F9 10F5	8500 9600 6930	24 29 14	41N 44N 45N	118W 110W 112W	1936 1936 1936	1,2,3,4,5 2,3,4,5 2,3,4	1,4 5
DROUPINE CREEK	-									Yellowjacket Selt River Summit	10F10 10G8	7675 7900	33 32	42N 29N	112W 118W	1936 1948	2,3,4,5	1,4
ve Springs Falls dicine Meel	7E31 7E30	7500 9000	19 24	56N	92W 92W	1956 1956	2,3,4,5	1		Snow King Mountain#1 Snow King Mountain#2	10F11 10F12		4	40N 40N	117W 117W	1949 1954	Semi Mo. Semi ko.	1
NOUS RIVER										SEAR RIVER								
ever Tongue Divide	7E20 7E2	9200 7700	12	551; 53.11	9 1W 8 GW	1956 1935	2,3,4,5	1		8ig Park CCC Camp	10G11 10G7	8700 7500	7 9	27N 29N	117N 118W	1951 1938	2.3,4,5	1,4
g Foose #2 ne-Spring Divide	7232 7E18	7700 9200	4 32	53n 55N	86W 89W	1955 1956	2,3,4,5 2,3,4,5 -	1		Girl Héllow ≪u Goo8man Ra nch ≈u	11H17 10J6	7900.	19	7N 3N	SE 1GE	1932	3,4,5 4	
rgees R.S. #1 rgees R.S. #2 me Lake #1	7E1 7E33 7E3	7900 7900 8800	36 36 11	568 W	89W 89W 87W	1950 1955 1950	2,3,4,5	1		Heyden Fork *u Head of Bear River *u Kelly R.S.	10J 7 10J 5 10G 12	9300 ⁴ 8600 8200	1 15 13	1S 2N 26N	9E 10E 118W	1951'** 1935 1951	4,5 4 2,3,4,5	1
ne Lake #2	7E34 7E14	8800 9300	11 32	53 N 55 N	87W 87W	1950 1956	2,3,4,5	1		Monte Cristo, R.S. *u Poison Meedows	11H12 10G6	8960 8500	3 29	8N 3ON	4E 11 <i>6</i> 77	1930 1948	3,4,5 2,3,4,5	1
anite Pess ke Genéva	7E17 7E16	89 5 0 9000	19	54N 52N	8 gw 8 6 W	1956 1956	2,3,4,5	1		Salt River Summit	1068	7900	32	29N	118#	1948	2,3,4,5	1,4
rth Tongue třey Lake	7E15 7E11	8800 8000	17	55N 55N	8 <i>9พ</i> 8 <i>ย</i> ส	1956 1956	2,3,4,5	1										
cker Greek - eamboat Point	7E12 7E10	9000 7500	19 32	55 N	87W 87W	1956 1956	2,3,4,5	1	5.	713								
od Rock G.S. WDER RIVER	7E13	8500	3	548	88 W	1956	2,3,4,5	1	1.73				ř					
nsy Woman Same	621	8200	6	4.7N	64W	1956	2,3,4,5	1										
ddy Creak G.S., nkers Pass ed	652 758	7800 9700	2 11	48N 48N	84W 85W	1956 1950	2,3,4,5	1		7.5				1				
rth Powder #2 *e ion Gulch idier Park	7E36 7E27 7E5	8300 8100 8700	20 31 36	47N 48N 51N	85W 85W 857	1956 1956 1950	2,3,4,5 2,3,4,5 2,3,4,5	1 1	1	1.4								
ur Dough	7E6	8500	17	49N	64W	1936	2,3,4,5	i	8	173								
EETWATER	004	0000	10	jar .) OME	1027	0.7.5	,	Erros									
ennier Mesdowa #1 shnier Lesdowe #2 rsen Creek	8G4 8G5 9G6	9000 9000 9000	19 19	30H 30H	100W 100W 103W	1937 1956 1949	2,3,4,5	1		e. Numerale 1,2,3,4 b. Numerale refer to	and 5 re	for to J	anuary	1, Februa	ry 1, Marc	h 1, Apr	11 1, and k	ay L
rsen Creek ith Pess	9G6 8G3	3000	12 13	30N	101W	1949 1939	2,3,4,5	1		b. Numerale refer to 1. Soil Conse 2. U. S. Nat	ervation	Service.	7		. voy, as f	OTTOM81		
RALIE RIVER										3. U. S. Ind: 4. U. S. Fore	ian Servi est Servi	00.		1				
	6H13	10200 10200	11 11	16% 16% 10N	79N 79N 75W	1936 1956	2,3,4,5	1		5. U.S. Stare 6. U.S. Geod	eau of Re logical S	clematic	n.					
ooklyn Lake #1 ooklyn Lake #2	610					1937	3,4,5			c. Colorado enow com	urses.							
ooklyn Lake #2 sdman Sill *c × Park	5J 6 6H12	9200 9500	26 21 24	1311	78W	1936	2,3,4,5	1.4		d. Formerly Muddy Pa	155.							
oklyn Lake #2 dman Sill *c	5.16	9200 9500 8700 9100 8700		12h 16k 16k 10K 15K				1,4 1,4		d. Formerly Muddy Pe e. Korth Powder #1 c f. Sheridan Creek pa m. Montena anow cour e. South Dakota anow	ass. deetroyed artially des.	destroye	d.					

WYOMING SNOW SURVEYS - ABOUT APRIL 1, 1958

			Ī	SN	OW COVER	MEAST	REMENT	rs		
DRAINAGE BASIN	No.			1958				RECORD		
and	or	Ti t	Date	Snow	Water		Conte	ent (In.)		
SNOW COURSE	State	Elev.	of Survey	Depth (In.)	Content (In.)	1957	1956	Average	Yrs.of Record	
							-			
MADISON RIVER - YELI	LOWSTONE	PARK								
Norris Basin	10E2	7500	3/30	29	7.8	10.8	12.0	9.4*	19	
21 Mile ^m	11E6	7150	3/29	46	13.5	21.0	23.9	17.2	21	
West Yellowstonem	11E 7	6700	3/30	29	7.6	14.2	14.1	11.6	2.7	
UPPER YELLOWSTONE - YELLOWSTONE PARK										
Canyon	10E3	7500	4/1	46	13.2	17.1	20.9	13.3*	19	
Cooke Citym	10D7	7400	3/31	26	6.1	9.9	11.7	8.3	21	
Crevice Mtn.m	10D5	8400	3/31	23	6.1	7.9	11.9	10.4	23	
East Entrance : Lake Camp	10E6 10E4	7000 7850	3/31 4/1	35 38	9.2 9.4	11.3	16.3 18.2	13.0** 10.7*	9 20	
Lupine Creek	10E1	7300	3/31	29	7.0	11.4	14.0	10.7*	18	
Sylvan Pass 3	10E5	7100	3/31	45	13.1	14.9	20.5	14.9%	19	
Thumb Divide***	10E7	7900	3/30	55.2	17.6	25.3	35.5	26.7**	11	
LOWER YELLOWSTONE -	CLARK'S	FORK								
Lodgepole	9E1	8200	3/31	33	8.9	12.3	16.0	10.7	19	
LOWER YELLOWSTONE -	WIND RI	VER								
Big Warm	9F12	8800	3/29	29	6.3	9.0	14.3		3	
Brooks Lake	10F8	9200	3/27	66	21.5	22,2	33.9	26.3*	21	
Burroughs Creek	9F4	0088	3/28	38	10.6	12.1	20.5	16.3**	9 8	
Dinwoodie Dry Greek	9F10 :	10000 9500	3/30 3/30	35 20	7.9 4.7	10.9	18.1	14.6** 7.7**	. 8 	
DuNoir	9F6	8750	3/29	23	5.5	7.2	13.2	9.7*	17	
Geyser Creek	9F7	8500	3/29	21	4.2	7.2	11.4	9.6**	9	
Little Warm	9F8	9500	3/29	47	12.1	17.1	25.6	19.8**	9	
Sheridan R.S. #2 T-Cross Ranch	9F14 9F3	7500 8000	3/27 3/28	24 16	5•5 3•5	7.0 6.0	10.9	7.5*	3 17	
Togwotee Pass	10F9	9600	3/31	73	26.2	27.9	41.5	29.1	22	

^{*} Average is for 15 years within and adjacent to the 1938-52 base period.

Average is for all past data.

April 1, 1930-1950 water contents estimated from March 15 and April 15 snow surveys and Snake River Station Climatological data.

m Montana snow courses.

Not located directly on this drainage.

SNOW COVER MEASUREMENTS

WYOMING SNOW SURVEYS - ABOUT APRIL 1, 1958

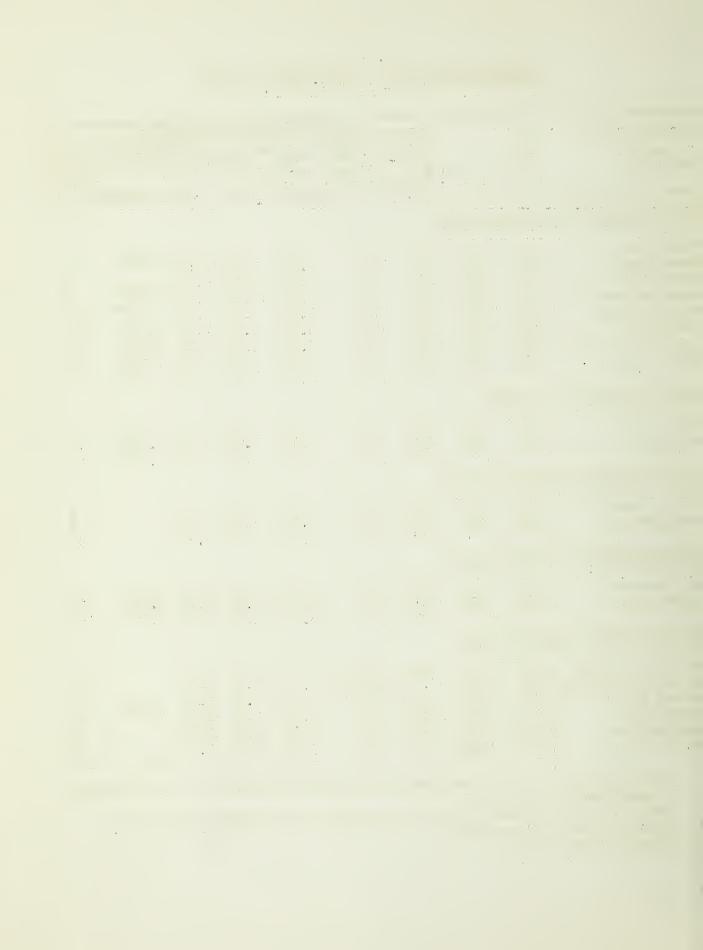
DRAINAGE BASIN	No.		1	1958			PAST	RECOPD	
and	or		Date	Snow	Water	Water		nt (In.)	Prior
SNOW COURSE	State	Elev.	of Survey	Depth (In.)	Content (In.)	1957	1956	Average	Yrs.of Record
LOWER YELLOWSTONE -	POPO AG	IE RIVE	R			:			
Blue Ridge Bruce's Camp Hobbs Park Mosquito Park R.S. Sawmill Glade South Pass St. Lawrence R.S. Trout Creek	8G2 8G5 9G3 9G4 5G1 8G3 9F11 9G2	9500 6500 10000 9500 8500 9000 9000	4/1 4/5 4/4 4/1 4/1 4/1 4/4	29 17 45 27 25 34 14	7.5 3.0 10.1 4.8 6.2 8.6 3.2 4.4	9.0 0.0 16.4 6.6 5.2 13.7 5.5 4.3	17.1 0.0 23.9 9.9 7.8 20.0 9.9 4.0	12.6* 20.8** 9.8** 8.2* 14.9* 7.9** 6.7**	18 3 9 13 18 18 14 9
LOWER YELLOWSTONE -	OWL CRE	EK							
Beavers Mill Owl Creek	9F2 8F1	8900 8 7 00	3/31 3/31	21 26	4.6 5.5	6.2 3.9	NR 5.8	7.2** 6.1**	7 9
LOWER YELLOWSTONE -	GREYBUL	L RIVER							
Timber Creek #2 Wood River #2	9E3 9F15	8800 8000	3/28 3/28	22 25	5.2 5.0	2.7 4.7	2.2 5.8		3 3
LOWER YELLOWSTONE -	SHOSHON	E RIVER							
East Entrance Sylvan Pass	10E6 10E5	7000 7100	3/31 3/31	35 45		11.5 14.9	18.3 20.5	13.0%* 14.9%	9 19
LOWER YELLOWSTONE -	NOWOOD (CREEK							
Cold Springs Camp Medicine Lodge Lake Munkres Pass ^d Onion Gulch Tensleep Lake Tensleep R.S.	7E25 7E24 7E8 7E27 7E26 7E7	8700 9500 9700 8100 9075 8300	4/1 No 4/3 4/4 4/4	31 Report 38 32 38 28	8.8 7.8	6.1 10.5 9.0 8.2 10.0 7.5	8.0 12.9 11.8 10.5 13.0 7.8	9.2** 7.2	2 7 2 2 2

Averages are for the 15 year base period of 1938 to 1952 with the following exceptions:

d Formerly Muddy Pass.

Average is for 15 years within and adjacent to the 1938-52 base period.

^{**} Average is for all past data.



WYOMING SNOW SURVEYS - ABOUT APRIL 1, 1958

		· · · · · · · · · · · · · · · · · · ·		Chi	OW COVER	NATURA CONTI	יייין אינד (,			
DRAINAGE BASIN	No.			1958	OW COVER		AST REC				
and	or		Date	Snow	Water			nt (In.)	Prior		
SNOW COURSE	State	Ele v.	of Survey	Depth (In.)	Content (In.)	1957	1956	Average	Yrs.of		
LOWER YELLOWSTONE -	SHELL C	REEK									
Bald Mountain Beaver-Tongue Div. Bone-Spring Div. Granite Cr. Camp Granite Pass Ranger Creek Shell Creek	7E21 7E20 7E18 7E22 7E17 7E4 7E23	9600 9200 9200 7800 8950 8800 9600	3/24 3/25 3/26 3/30 3/26	56 52 51 15 50	16.3 14.6 13.2 4.6 13.1	16.6 14.6 15.1 3.4 14.6 8.8	19.8 19.9 18.1 3.4 17.7 10.0 16.3	8.4*	2 2 2 2 2 20 2		
LOWER YELLOWSTONE - PORCUPINE CREEK											
Five Springs Falls Medicine Wheel	7E31 7E30	7 500 9000	3/31 3/24	21 43	5.6 13.1	12.7	6.8 14.2		2 2		
LOWER YELLOWSTONE - TONGUE RIVER											
Beaver-Tongue Div. Big Goose #2 Bone-Spring Div. Burgess R.S. #2 Dome Lake #2 Gloom Creek Granite Pass Sibley Lake Sucker Creek Steamboat Point Wood Rock G.S. LOWER YELLOWSTONE -	7E20 7E32 7E18 7E33 7E34 7E14 7E17 7E11 7E12 7E10 7E13	9200 7700 9200 7900 8800 9300 8950 8000 9000 7500 8500	3/25 3/31 3/26 3/25 3/31 3/27 3/26 3/28 3/27 3/28 3/27	52 25 51 24 37 42 50 33 39 21 33	14.6 5.2 13.2 5.3 7.8 10.3 13.1 7.8 9.9 5.1 7.8	14.6 6.7 15.1 6.2 9.3 10.5 14.6 7.2 8.8 5.1 9.4	19.9 9.4 18.1 8.2 12.9 13.7 17.7 10.3 13.1 8.5 12.1		2 2 2 2 2 2 2 2 2 2 2		
TOWER TETTOMOTOME -	FOWDER	TIVER									
Muddy Creek G.S. Munkres Pass Onion Gulch Soldier Park Sour Dough	7E28 7E8 7E27 7E5 7E6	7800 9700 8100 8700 8500	4/3 4/3 4/3 4/2 4/2	16 38 32 28 33	4.3 8.8 7.8 6.4 6.6	3.5 9.0 8.2 4.0 6.7	5.5 11.8 10.5 9.6 11.8	9.2** 5.2** 6.1	2		
NORTH PLATTE - SWEET	WATER										
Grannier Meadows Larsen Creek South Pass	8G4 9G6 8G3	9000 9000 9000	4/1 4/1 4/1	35 36 34	8.0 8.4 8.6	12.6 13.9 13.7	17.2 14.8 20.0	14.1 12.6** 14.9**	21 8 18		

Averages are for the 15 year base period of 1938 to 1952 with the following exceptions:

** Average is for all past data.

Average is for 15 years within and adjacent to the 1938-52 base period.

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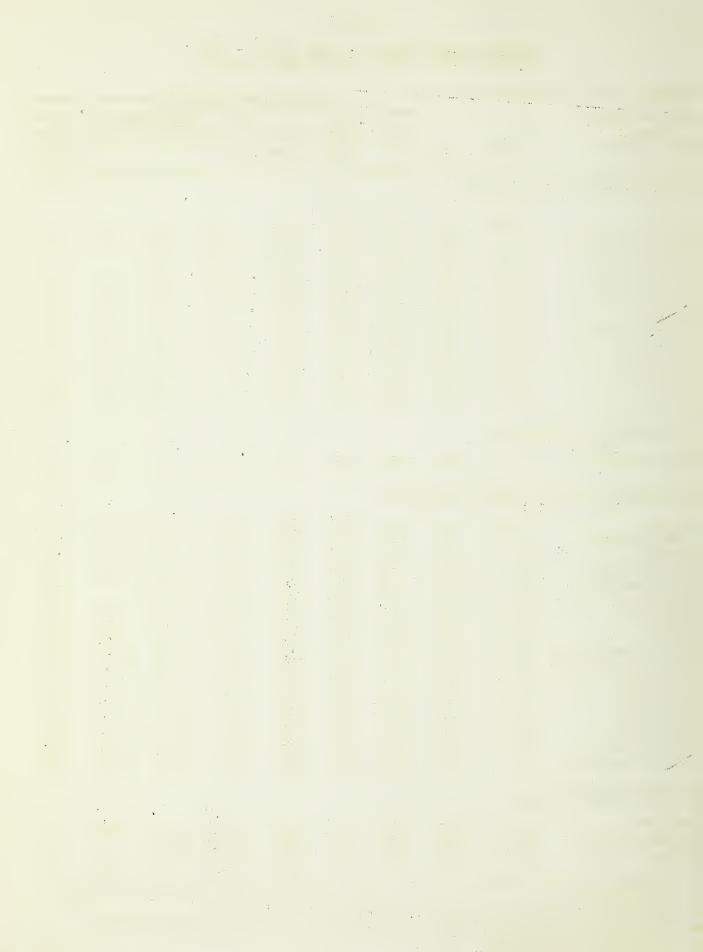
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WYOMING SNOW SURVEYS - ABOUT APRIL 1, 1958

			SNO	SNOW COVER MEASUREMENTS					
DRAINAGE BASIN	No•			1958	70		PAST R		
and SNOW COURSE	or State	Elev.	Date	Snow Depth	Water Content	Water	Conte	nt (In.)	Prior Yrs.of
DI(O) OOOLOD		DIOVE	Survey	(In.)	(In.)	1957	1956	Average	
NORTH PLATTE - LARAN	Œ RIVE	R							
Albany Brooklyn Lake #1 Brooklyn Lake #2 Cameron Pass ^c Chambers Lake ^c Deadman Hill ^c Foxpark Hairpin Turn #2 Libby Lodge #2 McIntyre ^c Pole Mountain #2 Roach ^c	6H11 6H13 5J1 5J2 5J6 6H12 6H3 5J15 5H1 6J8	9400 10200 10200 10300 9000 10200 9200 9500 8700 9100 8700 9800	3/27 3/26 3/26 3/31 3/30 3/27 3/31 3/26 4/1 3/27	49 82 78 85 35 70 37 43 40 40 22 62	14.4 26.0 23.9 29.4 10.7 20.6 9.1 12.5 10.8 10.8	15.8 28.8 25.9 29.7 12.8 21.2 7.4 14.2 12.6 15.6	16.3 30.5 28.2 30.5 10.5 23.2 5.9 14.6 12.1 11.9	14.7* 22.6 21.8 8.2 15.5 8.0 11.9 10.3 12.2* 5.5*	22 22 22 21 22 22 22 22 8 21
NORTH PLATTE - CROW		9000	3/28	02	17.8	26.2	25.1	19.0%	18
		0	- /				-1 6		
Pole Mountain #2	5H1	8700	3/27	22	5.5	9.2	5.8	5.5*	21
NORTH PLATTE - ABOVE	SEMINO	E RESER	VOIR						
Albany Bottle Creek Boxelder Cameron Pass ^c Casper Mountain Columbine ^c Foxpark LaBonte North Barrett Cr.#2 North French Cr.#1 Northgate ^c Old Battle Park View ^c Ryan Park Webber Spring Willow Creek Pass ^c	6H11 6H8 5G1 5J1 6G1 6J3 6H12 5G2 6H5 6H5 6H10 6J2 6H6 6H9 6J5	9400 8200 9000 10300 8700 9300 9200 8450 9400 10200 8500 9800 9200 8400 9000	3/27 4/2 3/31 3/31 3/27 3/31 3/30 4/1 4/1 4/2 3/28 4/1 4/2 3/28	49 42 24 85 77 37 23 76 104 96 944 53 42	14.4 12.7 5.9 29.4 12.4 25.6 9.1 5.7 25.5 38.3 7.6 33.8 7.7 13.0 16.3 10.8	15.8 17.6 7.2 29.7 13.6 30.1 7.4 7.6 24.0 37.8 9.2 38.5 11.8 16.0 22.1 16.6	16.3 15.1 4.2 30.5 11.1 27.9 5.9 3.3 21.3 31.8 6.8 34.8 8.3 10.8 20.2 14.8	14.7% 14.3 7.2% 21.8 23.5 8.0 7.6% 20.4 30.1 6.4% 32.3 10.6 11.7 19.2 13.5	22 8 22 3 22 22 8 22 8 22
NORTH LARAMIE MOUNTA	INS								
Boxelder Casper Mountain LaBonte	5G1 6G1 5G2	9000 8700 8450	3/31 3/27 3/30	24 55 23	5.9 12.4 5.7	7.2 13.6 7.6	4.2 11.1 3.3	7.2∺ 7.6∺	3

^{*} Average is for 15 years within and adjacent to the 1938-52 base period. ** Average is for all past data.

c Colorado snow courses.



WYOMING SNOW SURVEYS - ABOUT APRIL 1, 1958

	THE PARTY OF THE P		SNOW COVER MEASUREMENTS						
DRAINAGE BASIN	No.			1958				RECOPD	
and	or		Date	Snow	Water	·	Conte	nt (In.)	Prior
SNOW COURSE	State	Elev.	of Survey	Depth (In.)	Content (In.)	1957	1956	Average	Yrs.of Record
UPPER COLORADO - GRE	EN RIVE	R							
Big Park Dutch Joe R.S. East Rim Divide Green River Lakes Gros Ventre Summit Hewintau Hole-in-the-Rocku Hole-in-Rock R.S. Kelly R.S. Kendall R.S. Loomis Park Middle Beaveru Mulligan Park Old Battle \$ Piney-LaBarge Poison Meadows Snyder Basin R.S.#2 Soda Lake Triple Peaks	10G11 9G5 10F17 9F16 10F19 10J4 10J1 10J3 10G12 10F15 10F16 10J2 9G1 6H10 10G10 10G6 10G13 10G14 10G15	8700 8700 7950 8100 8750 9500 9150 8300 8500 8500 8550 8820 8500 8500 8500	3/24 3/31 4/1 4/2 4/2 3/31 3/24 4/1 4/3 3/26 3/26 3/26 4/1 4/1	60 32 36 38 32 46 31 45 50 47 88 59 59 59 55 56 75	20.5 7.5 9.6 8.8 11.9 7.6 18.5 15.4 10.6 33.8 20.5 31.0 5 19.6 28.4	19.7 9.2 11.1 5.5 12.5 9.4 7.0 0.0 17.6 12.1 18.1 28.5 19.1 30.3 16.6 20.0 32.0	26.1 9.4 15.9 6.6 16.2 9.5 4.4 14.6 26.4 12.0 34.8 26.2 21.5 23.4 40.3	22.5** 8.4* 11.4 13.3** 9.7 6.4 19.7** 11.1 16.7 10.8 32.3 18.5 31.4**	7 18 22 2 10 24 27 4 7 21 21 22 22 21 10 3 2
SNAKE RIVER - ABOVE			•,,	.,	- • •		4		
Arizona*** Aster Creek*** Base Camp*** * Coulter Creek Glade Creek*** Grassy Lake * Huckleberry Div.*** Lewis Lake Div.*** Moran*** Moran Bay*** Snake River Sta.*** Thumb Divide***	10F1 10E8 10F2 10E10 10E13 10E15 10E14 10E9 10F4 10F3 10E12 10E7	6850 7700 6900 7600 7200 7265 7300 7900 6500 6800 6780 7900	3/30 3/39 3/29 3/28 3/31 4/1 3/30 3/30 3/31 3/29 3/30 3/30	50 70 43 57 60 85 59 35 56 55	17.2 24.8 14.2 20.8 21.8 32.3 18.8 38.0 11.5 23.9 20.1 17.6	22.1 35.3 22.3 29.0 26.4 40.5 21.2 48.0 13.6 24.6 24.4 25.3	27.8 48.7 25.8 33.1 40.0 28.0 65.8 18.5 30.4 30.0 35.5	17.9 31.6 20.7** 22.5 23.2 34.0* 19.9 43.0 10.7 22.1 19.9 26.7 ***	28 28 11 28 28 18 28 28 28 28 28

Average is for 15 years within and adjacent to the 1938-52 base period. Average is for all past data.

April 1, 1930-52 water contents estimated from March 15 and April 15 snow surveys and Snake River Station Climatological data.

Utah snow courses.

Not located directly on this drainage.



- 11 - WYOMING SNOW SURVEYS - ABOUT APRIL 1, 1958

			1	SI	OW COVER	MEASU	REMENT	S	
DRAINAGE BASIN	No.			1958				RECORD	
and	or		Date	Snow	Water	Water	Conte	nt (In.)	Prior
SNOW COURSE	State	Elev.	of Survey	Depth (In.)	Content (In.)	1957	1956	Average	Yrs.of Record
JACKSON LAKE TO PALI	SADES								
Afton R. S. Blackrock Bryan Flat CCC Camp East Rim Divide Four Mile Meadows Greys Boundary Gros Ventre Summit Grover Park Divide Loomis Park Poison Meadows Salt River Summit Snow King Mtn. #1 Snow King Mtn. #2 Teton Pass #2 Togwotee Pass Turpin Meadows Yellowjacket	10G4 10F7 10F14 10G7 10F17 10F6 10F18 10F19 10G3 10F16 10G6 10G8 10F11 10F12 10F13 10F9 10F5 10F10	6200 8600 6250 7500 7950 7770 5800 8750 7500 8500 7600 7600 7200 8500 9600 6930 7675	4/4 3/31 4/1 4/1 3/31 3/31 4/2 4/3 4/3 3/26 3/31 3/31 3/31 3/31 3/31	8 60 33 37 36 43 35 32 43 47 93 40 36 101 73 35 27	0.6 19.5 10.3 12.4 9.9 12.6 12.2 8.8 14.9 15.4 31.0 16.1 10.8 9.6 37.4 26.2 10.0 7.7	3.2 20.5 9.2 14.9 11.1 13.1 12.4 12.5 13.6 18.1 30.3 18.6 9.6 10.0 35.1 27.9 11.0 6.1	0.3 31.9 11.5 12.1 18.9 18.4 10.8 16.2 12.1 26.4 47.0 18.5 17.2 14.7 51.2 41.5 14.9 5.4	1.6* 22.6 10.2 11.4* 11.4 13.5 10.9 13.3** 11.1 16.7 31.4** 16.8** 12.5** 39.4** 29.1 10.7 6.3*	10 8 4
BEAR RIVER									
Big Park CCC Camp Goodman Ranch ^u Hayden Fork ^u Kelly R.S. Monte Cristo R.S. ^u Poison Meadows • Salt River Summit Still Water Camp ^u MISSOURI - CHEYENNE	10G11 10G7 10J6 10J7 10G12 11H12 10G6 10G8 10J17	8700 7500 7900 9300 8200 8960 8500 7900 8550	3/24 4/1 4/3 4/3 3/24 3/31 3/26 3/31 4/3	60 37 23 53 56 86 93 49	20.5 12.4 6.7 15.7 18.5 31.5 31.0 16.1 11.2	19.7 15.0 8.0 16.3 17.6 25.7 30.3 18.6 12.8	26.1 12.1 4.7 20.8 23.4 31.6 47.0 18.5 13.1	22.5** 11.4* 5.6 19.5** 19.7** 26.3 31.4** 16.8**	7 21 20 6 7 25 10 10
Upper Spearfish ^S	3E1	6500	3/28	23	5.5	8.0	4.0	7 . 2**	J)†

^{*} Average is for 15 years within and adjacent to the 1938-52 base period.

^{**} Average is for all past data.

s South Dakota snow courses.

u Utah snow courses.

Not located directly on this drainage.

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- 12 -

STATUS OF WYOMING AND SOUTH DAKOTA RESERVOIR STORAGE - APRIL 1, 1958

BASIN		USABLE	USABLE	STORAGE -	1000 ACR	
and/or	RESERVOIR	CAPACITY				15-Yr. Avg.
STREAM		1000s AF	1958	1957	1956	1938-52
Snake River	Jackson	847.0	490.4	149.4	325.2	1485.3
Snake River	Palisades	1202.0	758.6	307.9	JEJ • C	24000
0120110 102102	Tallbados	1202.0	10000	J01•7		
North Platte	Seminoe	981.8	561.4	240.1	212.8	331.4*
North Platte	Pathfinder	1011.0	797.0	313.2	464.4	474.9*
North Platte	Alcova**	190.5	27.9	171.7	163.8	90.9
North Platte	Guernsey	39.8	30.0	0.9	32.4	40.3
North Platte	Sutherland	70.0	44.0	55.5	53.2	51 .1 *
North Platte	Kingsley	1900.0	1076.0	640.0	923.4	1182.4*
North Platte	Minatare	60.8	31.8	23.6	16.8	TT05.44
2402 012 2 11100 0 0		0000	J=• 0	2500	T0.0	
Kansas Basin	Bonny	39•9	43.2	37.5	40.2	19.1*
Kansas Basin	Swanson Lake	116.1	116.1	85.7	65.2	
Kansas Basin	Enders	36.0	36.0	33.5	43.9	19.8%
Kansas Basin	Harry Strunk	33.9	33.6	27.1	30.6	27.3*
Kansas Basin	Harlan County	252.9	252.9	63.6	191.7	-,,,,
Kansas Basin	Cedar Bluff	176.8	176.8	112.1	127.0	71.2*
			,			,
Laramie River	Wheatland	95.0	77•5	9.7	N. R.	36.0
Belle Fourche	Belle Fourche	185.2	78.2	49.9	98.8	117.2*
Belle Fourche	Keyhole	190.3	2.8	2.6	20.8	1.3*
Shoshone River	Buffalo Bill∺∺	380.3	130.0	116.4	117.2	252.8
*** 1 m !	_	7/0 0	07.0 (- 40 1
Wind River	Boysen	560.0	212.6	192.6	2.5	152.4*
Wind River	Pilot Butte	31.6	20.7	21.8	23.3	17.2*
Wind River	Bull Lake	152.0	60.6	63.2	55.3	51.6*
Charranna Direct	A	00.0	58.1	22 년	70 1.	1.7 0
Chevenne River	Angostura	92.0		33.5	78.4	41.0*
Cheyenne River	Deerfield	15.1	11.6	8.6	10.6	13.7*
Grand River	Shadehill	81.0	80.9	7.6	N. R.	
Grand MINGT.	Diracelliti	C DET.	00.7	7.0	1V • IL •	
Green River	Big Sandy	38.3	N.R.	11.1	9.8	
		2002	74970	ملت ۾ علم عدد	/•0	

^{*} Average is for less than 15 years of record in the 1938-52 period.

Alcova, downstream from Seminoe and Pathfinder and containing 160,170 Acre Feet of active storage that is unavailable to the Kewirick Project.

^{****} Usable capacity 439,800, however, 59,500 acre-feet are inactive except in emergency.

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Federal - State - Private COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"